

PCT/EG2004/000004

AMENDED CLAIMS

received by the International Bureau on 20 October 2004 (20.10.04) : claims 1 to 6 have been replaced by claims 1 to 11.

Amended Claims:

I claim the use of the following medically as medicines and medical interventional material:

1. Inorganic native sulfur in any of its forms as open or cyclic S_n species, liquid, catenasulfur.

Where $n = 6, 7, 9-15, 18$, and 20, and any other form of elemental inorganic sulfur.

2. A structure having the formula of R- sulfide (R-S).
3. A structure having the formula of R –hydrogen sulfide(R-SH) in inorganic compounds.
4. A structure having the formula of R-thiol (R-SH) in organic compounds,
5. A structure having the formula of Sulfur-R (S-R)
6. A structure having the formula of sulfur nitrogen cations and anions. (R-SN)
7. A structure having the formula of disulfide (RSSR).
8. A structure having the formula of R-dithiocarbamate, R-dithiocaboxylate, R-dithiophosphinate, R- thioxanthate, R- trithiocarbonate.
9. A structure having the formula of R-tetrathiometallate.
10. A structure having the formula of R- dithiolenes.

Where R is independently selected from:

all acid addition sulfides, acid addition hydrogen sulfides, base addition sulfides and hydrogen sulfides).

- a. All elements of The Periodic Table of the elements including: Metals, actinide, lanthanides, first, second, and third transition elements series and the halogens (example: all phosphorus sulphides, all potassium sulfides,

sulfur chlorides, sulfur amide (S_4N^-) tetrasulfur tetranitride, S_xN_y compounds etc.,).

- b. Amino acids (any essential or non- essential, primary amines, secondary amines, tertiary amines, arylamines, heterocyclic amines, aromatic amines.
- c. Lipoproteins, apolipoproteins, lethicines, eicosanoids.
- d. Fatty acids, alkanes, alkenes, alkynes, aromatics, alkyl halides, haloalkenes, alcohols, ethers, amines, aldehydes, ketones, carboxylic acids, esters, amides, nitriles.
- e. Isoprenoids, steroids, cholesterol and its biosynthesis steps products.
- f. Water soluble vitamins and fat soluble vitamins (example: pyridoxin sulfide-thiol, pantothenate sulfide-thiol etc).
- g. Casein, olivovitelline.
- h. Ketones, polyhydroxy aldehydes.
- i. D and L Glyceraldehydes, lactic acid, tartaric acid, arabinose
- j. Carbohydrates; as Monosaccharides, (including aldehydes, ketones) as trioses, tetroses, pentoses, hexoses, Disaccharides, uronic acids, aric acids, anhydrides, dianhydrides, glycosides, cyclic acetals, aldoses, uloses, aldonic acids,
- k. Invert sugars (example; dextrose, levulose, etc)
- l. Glucosamine and glucouronic acid
- m. Phosphatidic acids, phosphatidylcholines, phosphatidylethanolamines,
- n. Phosphatydylserines, phosphatidylinositols.
- o. Hormones and biologic mediators (example: neurotransmitters, adrenalin, amphetamines, dopamine, serotonin, thyroxin).
- p. Oligomeric proteins (including angiotensin II, vasopressin, oxytocin, bradykinin, gastrin, substance P, and endothelin, etc)
- q. Bulking agents and sclerosing agents
- r. Bile acids (example: cholic acid, dexoxy cholic acid, taurocholic acid, glycocholic acid, lithocholic acid, chenodeoxy cholic acid etc).

11. Plastic of sulfur and all acid addition sulfides, acid addition hydrogen sulfides, base addition sulfides and hydrogen sulfides for the making of all medical interventional material.

Where Medical interventional material includes (vascular, cardiologic, endovascular, urologic, hepatic, neurologic, gastrointestinal, cardiothoracic, orthopedic)

- Stents, (including endovascular, dilating, urethral, ureteric)
- catheters, ---ostomy tubes,
- Chest tube
- Bulking agents for incontinence, reflux,
- Drains, shunts, nerve sheathing material,
- Tubes (including tracheostomy, grommet)
- Surgical suture material.
- Sieves for venous and arterial thrombosis.
- Plastic bags for blood, urine, and any biologic material.
- Canulas, central venous pressure devices,

- Grafts, (including grafts replacing bone defects and other soft tissue defects post- debulking, or post traumatic or congenital etc.)
- Prostheses devices (including penile, breast implants, heart valves, etc.).
- Casts, soft and hard,
- Implants (including absorbable implants)
- Plates and screws, nails,
- Spacers,
- Bone cement.
- Bands for band ligations, and ligations for all medical purposes as fallopian tube ligation, cervical , oeophageal varices etc.
- Sheaths of endoscopy, bed sheets, thermometers, etc